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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

| Application No. | Applicant(s) | Applicant(s) | |
|-----------------|-----------------|--------------|--|
| 10/553,082 | PALENIUS ET AL. | | |
| Examiner | Art Unit | | |
| FRANK DONADO | 2617 | | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a repty be timely filed after SIX (6) MONTHS from the mailing date of this communication.

| If no period or injury is specimed above, the inductional seasons period with apply and with expert SN to the internal case of this communication. Failure to reply within the set or endended period for reply with by shating, cause the application to become ARMONDED (38 USC, § 13s). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any earned pattern term adjustment. See 37 OFR 17 (14(b)). |
|--|
| Status |
| 1) Responsive to communication(s) filed on <u>04 September 2009</u> . |
| 2a)⊠ This action is FINAL . 2b)□ This action is non-final. |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. |
| Disposition of Claims |
| 4)⊠ Claim(s) 1-12, 15-25 and 28-35 is/are pending in the application. |
| 4a) Of the above claim(s) is/are withdrawn from consideration. |
| 5) Claim(s) is/are allowed. |
| 6)⊠ Claim(s) <u>1-12,15-25 and 28-35</u> is/are rejected. |
| 7) Claim(s) is/are objected to. |
| 8) Claim(s) are subject to restriction and/or election requirement. |
| Application Papers |
| 9)☐ The specification is objected to by the Examiner. |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). |

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

| Priority under 35 U.S.C. § 119 | | | | | |
|---|--|--|--|--|--|
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | |
| Certified copies of the priority documents have been received. | | | | | |
| Certified copies of the priority documents have been received in Application No | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | |
| * Country and detailed Office action for a list of the continued | | | | | |

Attachment(s)

| 1) Notice of References Cited (PTO-892) | Interview Summary (PTO-413) | |
|---|---------------------------------------|--|
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date | |
| 5) Information Disclosure Statement(s) (PTO/SB/08) | Notice of Informal Patent Application | |
| Paper No(s)/Mail Date 10/14/09. | 6) Other: . | |

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DETAILED ACTION

Response to Amendment

 The amendment filed on 9/4/09 has been entered. Claims 1 and 16 have been amended. Claims 13, 14, 26, and 27 have been cancelled. No claims have been added. Claims 1-12, 15-25 and 28-35 are currently pending in this application, with claims 1 and 16 being independent.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neadtived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-3, 7-11, 15-17, 23-25, 28, and 30-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nevo, et al (WO 00/04729), in view of Dupuy, et al (US Patent No. 5,479,409). From now on, Nevo, et al, will be referred to as Nevo, and Dupuy, et al, will be referred to as Dupuy.

Regarding claim 1, Nevo teaches a method for internally synchronizing measurements in a mobile communication apparatus having a first active radio access means adapted to communicate according to a first radio access technology (RAT) and a second passive radio access means adapted to communicate according to a second RAT, comprising generating a time reference common to the first and second radio access means (During a handover of a mobile station MS communicating using a 1st/CDMA communication type, there is a 20 ms interval to allow for synchronization from a base station from said 1st/CDMA communication type to a neighbor base station from a 2nd/GSM/TDMA communication type to take place, Pg. 4, lines 18-29 and Abstract, lines 5-8), determining an activation time of the time schedule based on the common time reference (Said time schedule is activated relative to said precise moment when said interval starts, pg. 4, lines 23-29); forwarding said time schedule to said second radio access means (A target TDMA

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base station is identified during said handover to instruct said target TDMA base station for said establishment of communication with said MS after said handover, Pg. 4. lines 25-29); and translating said time schedule by said second radio access means into a time format of said second access means (Said 2nd/GSM/TDMA base station uses its own synchronization clock and comprises the 20 ms time interval in its own time format, in order to complete said handover process, Pq. 4, lines 12-17). Nevo does not teach obtaining, by said first radio access means, at least one time schedule in a time format of said first radio access means, said time schedule indicating a time gap during which the second radio access means is allowed to be active and not interrupt communications of the first radio access means. Dupuy teaches obtaining, by said first radio access means, at least one time schedule in a time format of said first radio access means, said time schedule indicating a time gap during which the second radio access means is allowed to be active and not interrupt communications of the first radio access means (In order to allow a synchronization to take place between 2 base stations, a time is scheduled and agreed upon between said base stations for measurements from the second base station to take place. Communication between a mobile station and said first base station is temporarily interrupted for a period that is not long enough for said communication link between both components to be broken. This is also indicated due to the same Basic Service Set being used by both Base Stations, indicating a soft handover is taking place, where soft handovers comprise a continuation in service from a first base station during a handover. Column 8.

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lines 14-18 and **28-45**). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Nevo to include this feature for the benefit of transmission efficiency.

Regarding claim 2, Nevo, in view of Dupuy, teaches the method according to claim 1. Nevo further teaches when activation of the time schedule is requested (A scheduled time of 20 ms during which a 1st base station is continued to allow time for synchronization over to the 2nd base station, pg. 4, lines 23-29), the request initiates a common time event (CTE) (The interval is the common time event, and transmission of a 1st base station may be continued while synchronization occurs with the 2nd base station, pg. 4, lines 23-29), in response to which the time reference is generated in the first and the second radio access means (The MS requests a handover and this activates a time schedule. This causes an interval to occur to allow the switch from TDMA/GSM base station to CDMA base station, during which the time of day is received in the TDMA/GSM base station and then synchronized to the CDMA base station, pg. 4, lines 1-4 and 30-33 and pg. 5, lines 1-2 and 7-8).

Regarding claim 3, Nevo, in view of Dupuy, teaches the method according to claim 2. Nevo further teaches the CTE is hardware supported interval (In switching from a CDMA base station to a TDMA/GSM base station, the MS, a hardware component, is at first in communication with the CDMA base station and sends a type of signal indicating a need for a handover that causes the interval to occur, pg. 4. lines 18-25).

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Regarding claim 7, Nevo, in view of Dupuy, teaches the method according to claim 1. Nevo further teaches the time schedule is obtained based on information received from a first communication network to which the first radio access means is coupled (In switching from a CDMA base station to a TDMA/GSM base station, the MS is at first in communication with the CDMA base station, and the CDMA base station sends this signal indicating the need for handover to the MS, causing the interval to occur so that the MS may perform a neighbor scan, pg. 4, lines 18-25).

Regarding claim 8, Nevo, in view of Dupuy, teaches the method according to claim 7. Nevo further teaches the received information comprises configuration data specifying gaps in which the second radio access means is allowed to be active (A time gap of 20 ms is defined to be the interval time during which handover should occur, pg. 4, lines 23-25).

Regarding claim 9, Nevo, in view of Dupuy, teaches the method according to claim 7. Nevo further teaches the received information comprises setup or reconfiguration information, and the first radio access means obtains the gaps based on stored and received data (The MS receives stored and received time of day information from the TDMA/GSM indicating to the MS that it now needs to reconfigure/synchronize to the CDMA base station, during which the interval in communication to the 1st/TDMA/GSM base station occurs, Pg. 4, lines 1-7, 12-17 and 30-33 and Pg. 5, lines 1-8).

Regarding claim 10, Nevo, in view of Dupuy, teaches the method according to

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claim 1. Nevo further teaches the duration of a time gap and the distance between the common time reference and a time gap are given in the time schedule (A time gap duration of 20 ms (IS-95 standard) that is taken based on the time of day information that is received by both the TDMA/GSM base station and CDMA BASE STATION and is the common time reference between both the TDMA/GSM base station and CDMA base stations, pg. 4, lines 10-12, 23-25 and 30-33 and Pg. 5, lines 1-8).

Regarding claim 11, Nevo, in view of Dupuy, teaches the limitations of claim 1. Nevo further teaches several time gaps being are determined in the time schedule and the distance between each of the time gaps being specified in the time schedule (The distance between the time gaps is defined according to the IS95 standard and is about 20 ms long, pg. 4, lines 23-25).

Regarding claim 15, Nevo, in view of Dupuy, teaches the method according to claim 1. Nevo further teaches the time schedule is utilized by the second radio access means to provide cell measurements (The mobile station is handed over from the 1st base station to the 2nd base station in response to the data from the 2nd mobile station and the 2nd mobile station subsequently takes cell measurements, pg. 6, lines 1-4).

Regarding Claim 16, Nevo teaches an arrangement for internally synchronizing measurements in a mobile communication apparatus, comprising a first active radio access means. a first transceiver means for communication with a first communication

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network, the first transceiver means being adapted to communicate according to a first radio access technology (The mobile station communicates with an active base station corresponding to a 1st/CDMA communication type, pg. 4, lines 18-20); a second passive radio access means comprising a second transceiver means with a second communication network, the second transceiver means being adapted to communicate according to a second radio access technology (The mobile station communicates with said active base station corresponding to a 1st/CDMA communication type before a handover to a passive base station of a 2nd/GSM/TDMA communication type takes place, pg. 4, lines 18-29); a time reference generating means for generating a time reference common to the first radio access means and the second radio access means (During a handover of a mobile station MS communicating using a 1st/CDMA communication type, there is a 20 ms interval to allow for synchronization from a base station from said 1st/CDMA communication type to a neighbor base station from a 2nd/GSM/TDMA communication type to take place, Pg. 4, lines 18-29 and Abstract, lines 5-8); and the time schedule generating means being adapted to determine the activation time of the schedule based on the common time reference (Said time schedule is activated relative to said precise moment when said interval starts, pg. 4, lines 23-29); means for forwarding the time schedule to said second radio access means (A target TDMA base station is identified during said handover to instruct said target TDMA base station for said establishment of communication with said MS after said handover, Pg. 4. lines 25-29); and means on the second radio access means for

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translating the time schedule into a time format of the second radio access means (Said 2nd/GSM/TDMA base station uses its own synchronization clock and comprises the 20 ms time interval in its own time format, in order to complete said handover process. Pq. 4. lines 12-17). Nevo does not teach a time schedule generating means in the first radio access means for obtaining at least one time schedule in a time format of the first radio access means, time schedule indicating at least one time gap, during which the second radio access means is allowed to be active and not interrupt communications of the first radio access means. Dupuy teaches a time schedule generating means in the first radio access means for obtaining at least one time schedule in a time format of the first radio access means, time schedule indicating at least one time gap, during which the second radio access means is allowed to be active and not interrupt communications of the first radio access means (In order to allow a synchronization to take place between 2 base stations, a time is scheduled and agreed upon between said base stations for measurements from the second base station to take place. Communication between a mobile station and said first base station is temporarily interrupted for a period that is not long enough for said communication link between both components to be broken. This is also indicated due to the same Basic Service Set being used by both Base Stations, indicating a soft handover is taking place, where soft handovers comprise a continuation in service from a first base station during a handover, Column 8, lines 14-18 and 28-45). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Nevo to include this feature for the

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benefit of transmission efficiency.

Regarding claim 17, Nevo, in view of Dupuy, teaches the arrangement according to claim 16. Nevo further teaches the time reference generating means is adapted to generate a common time event (CTE) (The interval is the common time event, and transmission of a 1st base station may be continued while synchronization occurs with the 2nd base station, pg. 4, lines 23-29) and the time reference in response to the CTE in the first and the second radio access means (The MS requests a handover and this activates a time schedule. This causes an interval to occur to allow the switch from TDMA/GSM base station to CDMA base station, during which the time of day is received in the TDMA/GSM base station and then synchronized to the CDMA base station, pg. 4, lines 1-4 and 30-33 and pg. 5, lines 1-2 and 7-8).

Regarding Claim 23, Nevo, in view of Dupuy, teaches the arrangement according to claim 16. Nevo further teaches the time schedule generating means is adapted to obtain the time schedule based on stored information and data received from the first communication network during operation (In switching from a CDMA base station to a TDMA/GSM base station, the MS is at first in communication with the CDMA base station, and the CDMA base station sends this signal indicating the need for handover to the MS, causing the interval to occur so that the MS may perform a neighbor scan, pg. 4, lines 18-25).

Regarding claim 24, Nevo, in view of Dupuy, teaches the arrangement according to claim 16. Nevo further teaches the time schedule generating means is adapted to

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incorporate into the time schedule parameters that identify the duration of the time gap, and the distance between the common time reference and the at least one time gap (A time gap duration of 20 ms (IS-95 standard) that is taken based on the time of day information that is received by both the TDMA/GSM base station and CDMA BASE STATION and is the common time reference between both the TDMA/GSM base station and CDMA base stations, pg. 4, lines 10-12, 23-25 and 30-33 and Pg. 5, lines 1-8).

Regarding claim 25, Nevo, in view of Dupuy, teaches the arrangement according to claim 16. Nevo further teaches the time schedule generating means is adapted to incorporate into the time schedule a plurality of time gaps and to specify the distance between each of the plurality of time gaps in the time schedule (The distance between the time gaps is defined according to the IS95 standard and is about 20 ms long, pg. 4, lines 23-25).

Regarding claim 28, Nevo, in view of Dupuy, teaches the arrangement according to claim 16. Nevo further teaches the second radio access means is adapted to provide cell measurements during the time gaps given in the time schedule, and wherein the first access radio means is adapted to be passive (The mobile station is handed over from the 1st base station to the 2nd base station in response to the data from the 2nd mobile station and the 2nd mobile station subsequently takes cell measurements, pg. 6, lines 1-4. The data received includes a time scheduled for the 1st mobile station to be continued, pg. 4, lines 18-25).

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Regarding claim 30, Nevo, in view of Dupuy, teaches the arrangement according to claim 16. Nevo further teaches the second access technology is GSM (Global System for Mobile Communication) (The Mobile Station is in communication with a 2nd radio access technology that is GSM during handover, pg. 4, lines 19-21).

Regarding claim 31, Nevo, in view of Dupuy, teaches the arrangement according to claim 16. Nevo further teaches the first and second radio access means have at least one common radio resource (A duplexer conveys RF signals via antenna to GSM or CDMA base station, pg. 19-21).

Regarding claim 32, Nevo, in view of Dupuy, teaches the arrangement according to claim 31. Nevo further teaches the common radio resource is an antenna (A duplexer conveys RF signals via antenna to GSM or CDMA base station, pg. 19-21).

Regarding claim 33, Nevo, in view of Dupuy, teaches the arrangement according to claim 16. Nevo further teaches a mobile terminal operable within the first radio access technology and second radio access technology (The mobile station is in communication with 2 types of base stations and switches between TDMA/GSM base station and CDMA base station, pg. 18, lines 20-23); the mobile terminal having digital computer capabilities (TDMA/GSM base station and CDMA base station are produced as digital data, pg. 19, lines 17-18); a computer program product embodied on a computer readable memory of the mobile terminal, having software code portions for generating a reference common to the first and the second radio access means (The

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processor allows for the IS-95 standard to be implemented, which includes the interval to allow for the handover to take place, Pg. 20, lines 1-4); obtaining at least one time schedule, the time schedule indicating a time gap during which the second radio access means is allowed to be active (The applicant defines the time schedule as the time gap, which is an interval, during which the second radio access means is allowed to be active. Nevo teaches transmission of the 1st base station may be continued while it synchronizes to the 2nd base station, pg. 4, lines 23-29); and determining an activation time of the time schedule based on the common time reference (The applicant defines the time schedule as the time gap, which is an interval, during which the second radio access means is allowed to be active. Nevo teaches transmission of the 1st base station may be continued while it synchronizes to the 2nd base station, pg. 4, lines 23-29).

Regarding claim 34, Nevo, in view of Dupuy, teaches the arrangement according to claim 16. Nevo further teaches said arrangement adapted for use in a wireless communication apparatus (Nevo's invention is specific to wireless telecommunications, pg. 1, lines 5-6).

Regarding claim 35, Nevo, in view of Dupuy, teaches the arrangement according to claim 34. Nevo further teaches the wireless communication apparatus is one from the group consisting of a mobile radio terminal, a mobile telephone (1), a pager and a communicator (Nevo's invention is specific to wireless telecommunications, pg. 1, lines 5-6).

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 Claims 4-6, 12 and 18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nevo, in view of Dupuy, and further in view of Leprieur, et al (US Patent No. 6.959.201). From now on, Leprieur, et al, will be referred to as Leprieur.

Regarding claim 4. Nevo, in view of Dupuy, teaches the limitations according to claim 2. Nevo, in view of Dupuy, does not teach registering counter values from a first and second counter provided in the first and the second radio access means. respectively, in response to the CTE. Leprieur teaches using a mobile communications device with two types of radio access technologies that performs handover, further comprising registering counter values from a 1st and 2nd counter provided in the 1st and 2nd radio access technology in response to a common time event. (The common time event is an interruption of transmission by the 1st radio access technology so the handover may be performed. The time shift between the 2 mobile radio modes, which is an interruption in the transmission of 1st radio access technology, is calculated in response to the interruption. Counters that are part of clocks associated with the 1st and 2nd radio modes assist in calculating this time shift. A 1st mobile radio mode M1 associated with UTRAN technology has a 1st counter SFN and a 2nd mobile radio terminal M2 has a 2nd counter T1, T2, etc. pg. 2, paragraph 35). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Nevo to include registering counter values in response to the common time event for the purpose of reliability.

Regarding claim 5, Nevo, in view of Dupuy, and further in view of Leprieur,

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teaches the limitations of claim 4. Leprieur further teaches a current connection frame number, current slot and current chip as being registered by a first radio access means in response to the CTE. A frame number corresponds to the 1st mobile radio mode and is detected as part of the time shift calculation process. Timeslot counters and chip counters are found in the 1st radio mode. (pg. 2, paragraphs 19 and 35).

Regarding claim 6, Nevo, in view of Dupuy, and further in view of Leprieur, teaches the limitations of claim 4. Leprieur further teaches the current frame number in a GSM multiframe structure and the position within the frame as being registered by the second radio access means in response to the CTE. A frame number corresponds to the 2nd mobile radio mode and is detected as part of the time shift calculation process. (pg. 2, paragraph 21).

Regarding claim 12, Nevo, in view of Dupuy, teaches the limitations of claim 1. Nevo, in view of Dupuy, does not teach registering counter values from a first and second counter provided in the first and the second radio access means respectively in response to the CTE. Leprieur teaches using a mobile communications device with two types of radio access technologies that performs handover, further comprising registering counter values from a 1st and 2nd counter provided in the 1st and 2nd radio access technology in response to a common time event. The common time event is an interruption of transmission by the 1st radio access technology so the handover may be performed. The time shift between the 2 mobile radio modes, which is an interruption in the transmission of 1st radio access technology, is calculated in response to the interruption. Counters that are part of clocks associated with the 1st and 2nd radio

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modes assist in calculating this time shift. A 1st mobile radio mode M1 associated with UTRAN technology has a 1st counter SFN and a 2nd mobile radio terminal M2 has a 2nd counter T1, T2, etc. (pg. 1, paragraphs 13-23 and pg. 2, paragraph 35). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Nevo to register counter values from a first and second counter provided in the first and the second radio access means respectively in response to the CTE for the purpose of reliability.

Also regarding claim 12, Nevo, in view of Dupuy, does not teach a delay between channel timing and the counter of the first radio access means is taken into account when determining the activation time of the time schedule. Leprieur teaches a time shift must be calculated using a counter located in the 1st radio mode. (pgs. 1, paragraphs 13-23 and pg. 2, paragraph 35). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Nevo to use the delay to synchronize the clocks corresponding to the 1st and 2nd radio access means as part of the synchronization process between the 1st and 2nd radio access means.

Regarding Claim 18, Nevo, in view of Dupuy, teaches the limitations of claim 17.

Nevo, in view of Dupuy, does not teach the time reference generating means comprising a first and second counter synchronize mechanism provided in the first and second radio access means, respectively, where one of the counter synchronize mechanisms is adapted to generate an interrupt and wherein the interrupt is the CTE the other counter synchronize mechanism adapted to receive the interrupt. Leprieur teaches using a mobile communications device with two types of radio access

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technologies that performs handover, further comprising registering counter values from a 1st and 2nd counter provided in the 1st and 2nd radio access technology in response to a common time event. The common time event is an interruption of transmission by the 1st radio access technology so the handover may be performed. The time shift between the 2 mobile radio modes, which is an interruption in the transmission of 1st radio access technology, is calculated in response to the interruption. Counters that are part of clocks associated with the 1st and 2nd radio modes assist in calculating this time shift. A 1st mobile radio mode M1 associated with UTRAN technology has a 1st counter SFN and a 2nd mobile radio terminal M2 has a 2nd counter T1, T2, etc. (pg. 1, paragraphs 13-23 and pg. 2, paragraph 35). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Nevo to register counter values from a first and second counter provided in the first and the second radio access means respectively in response to the CTE for the purpose of synchronizing the 1st and 2nd radio access means in order to assist with the handover process.

Regarding claim 19, Nevo, in view of Dupuy, and further in view of Leprieur teaches the limitations of claim 18. Leprieur further teaches either or both of the counter synchronize mechanisms are adapted to write a bit onto a connection to the other, the bit being the interrupt. Bit counters are used in the clock corresponding to the 2nd radio mode that assist in the synchronization process from the 1st radio mode to the 2nd radio mode. (pg. 2, paragraph 35).

Regarding Claim 20, Nevo, in view of Dupuy, and further in view of Leprieur, teaches the limitations of claim 19. Leprieur further teaches the time reference

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generating means comprises first and second counter means and first and second counter value register means provided in the first and second radio access means, respectively. Leprieur teaches using a mobile communications device with two types of radio access technologies that performs handover, further comprising registering counter values from a 1st and 2nd counter provided in the 1st and 2nd radio access technology in response to a common time event. (The common time event is an interruption of transmission by the 1st radio access technology so the handover may be performed. The time shift between the 2 mobile radio modes, which is an interruption in the transmission of 1st radio access technology, is calculated in response to the interruption. Counters that are part of clocks associated with the 1st and 2nd radio modes assist in calculating this time shift. A 1st mobile radio mode M1 associated with UTRAN technology has a 1st counter SFN and a 2nd mobile radio terminal M2 has a 2nd counter T1, T2, etc. pg. 2, paragraph 35).

Regarding Claim 21, Nevo, in view of Dupuy, and further in view of Leprieur, teaches the arrangement according to claim 20. Leprieur further teaches the counter of the first radio access means, in operation, is adapted to generate current connection frame number, current slot and current chip, which the time reference generating means is adapted to store in the first counter value register means in response to the CTE. A frame number corresponds to the 1st mobile radio mode and is detected as part of the time shift calculation process. Timeslot counters and chip counters are found in the 1st radio mode. (pg. 2, paragraphs 19 and 35).

Regarding Claim 22, Nevo, in view of Dupuy, and further in view of Leprieur.

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teach the arrangement according to claim 20. Leprieur further teaches the counter of the second radio access means is adapted to generate the current frame number in GSM multiframe structure and the position within the frame, which the time reference generating means is adapted to store in the second counter value register means in response to the CTE. A frame number corresponds to the 2nd mobile radio mode and is detected as part of the time shift calculation process. (pg. 2, paragraph 21).

 Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nevo, in view of Dupuy, and further in view of Schwarz, et al (US Patent No. 7,248,889).

Regarding claim 29, Nevo, in view of Dupuy, teaches the arrangement according to claim 16. Nevo, in view of Dupuy, does not teach the first radio access technology is WCDMA. Schwarz teaches the first radio access technology is WCDMA (A base station of WCDMA type performs handoff and synchronization during handover, Column 5, lines 9-27). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Nevo, in view of Dupuy, to include this feature for the benefit of service variety.

Response to Arguments

 Applicant's arguments with respect to claims 1-12, 15-25 and 28-35 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in

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this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANK DONADO whose telephone number is (571) 270-5361. The examiner can normally be reached Monday-Friday, 9:30 am-6 pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rafael Perez-Gutierrez can be reached on 571-272-7915. The fax phone number for the organization where this application or proceeding is assigned is 571-270-6361.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Application/Control Number: 10/553,082 Page 21

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/Frank Donado/ Art Unit 2617

/Rafael Pérez-Gutiérrez/

Supervisory Patent Examiner, Art Unit 2617